Harmful algal blooms and nutrient management efforts in Wisconsin

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- Impoundments
- Shallow lakes
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Lakes with most cyanobacteria-related health complaints reported to the Wisconsin HAB Surveillance Program in 2009-2013 (large lakes with many recreational users)
Red Cedar River (Tainter Lake, Lake Menomin) TMDL – Approved 2012
Farmers determine best paths to conservation success for their watersheds.

McKnight Foundation funds a conservation incentives program that achieves water quality goals.

- Soil health sample analysis
- Grass waterway construction & repair
- Cover crops
- Manure spreader calibration

https://blogs.ces.uwex.edu/wflcp/
Citizen Advocacy Groups

www.pacrs.org

Watershed projects: nutrient and soil loss comparisons between different farming systems
Tile monitoring
Nitrogen use efficiency
Edge of field monitoring
Feed storage leachate studies
Nutrient management challenges: a warmer, wetter Wisconsin

- Heavy rains & snowmelt: extra nutrients via runoff
- Earlier & extended growing season may exacerbate blooms

Figures from Wisconsin Initiative on Climate Change Impacts 2011: Wisconsin’s Changing Climate: Impacts and Adaptations  https://www.wicci.wisc.edu/publications.php
Superior, WI and Duluth, MN:
3 to 10 inches of rain June 19-21, 2012
Dolichospermum lemmermannii bloom July 15, 2012